

Alabama

Science and Engineering Profile

	STATE	U.S.	Rank		STATE	U.S.	Rank
Doctoral scientists, 1995	4,853	453,928	28	Total R&D performance, 1995 (millions)	\$1,681	\$177,210	25
Doctoral engineers, 1995	1,370	86,738	20	Industry R&D, 1995 (millions)	\$686	\$130,332	31
S&E doctorates awarded, 1996	314	27,230	25	Academic R&D, 1996 (millions)	\$342	\$22,481	22
of which, in life sciences	31%	25%		of which, in life sciences	66%	56%	
in engineering	25%	23%		in engineering	15%	16%	
in physical sciences	15%	14%		in physical sciences	6%	10%	
S&E postdoctorates, 1996	350	37,019	25	Higher education current-fund expenditures, 1995 (millions)	\$2,958	\$182,602	21
S&E graduate students, 1996	6,507	430,631	22	Number of SBIR awards, 1990-1997	526	31,155	17
in doctorate-granting institutions				Patents issued to state residents, 1997	300	61,699	33
Population, 1997 (000s)	4,319	271,464	23	Gross state product, 1996 (billions)	\$99.2	\$7,677.4	25
Civilian labor force, 1997 (000s)	2,174	137,564	21	of which, agriculture	2%	2%	
Personal income per capita, 1997	\$20,842	\$25,598	39	manufacturing, mining, construction	28%	23%	
Federal spending				transportation, communication, utilities	9%	8%	
Total expenditures, 1997 (millions)	\$24,563	\$1,405,060	19	wholesale and retail trade	16%	16%	
R&D obligations, 1996 (millions)	\$2,180	\$66,087	10	finance, insurance, real estate	13%	19%	
				services	16%	20%	
				government	16%	12%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & Colleges	Other nonprofits	State & local government	State rank
Total, all agencies	2,179,525	738,254	0	1,226,300	192,367	21,557	1,047	10
Department of Agriculture	14,488	5,394	0	0	8,962	132	0	33
Department of Commerce	2,005	98	0	1,371	499	0	37	30
Department of Defense	1,329,002	450,522	0	866,628	10,752	1,100	0	9
Department of Energy	22,487	50	0	18,155	3,782	500	0	23
Dept. of Health & Human Services	146,712	4	0	2,306	127,958	16,423	21	21
Department of Interior	4,167	3,522	0	0	645	0	0	31
Department of Transportation	2,170	0	0	1,291	9	0	870	30
Environmental Protection Agency	2,388	0	0	24	536	1,828	0	24
Nat'l Aeronautics & Space Admin.	647,066	278,664	0	336,440	30,269	1,574	119	5
National Science Foundation	9,040	0	0	85	8,955	0	0	39
State rank	10	5	na	7	20	19	37	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable